MONTALY COMPARISON

METER LIGHT \$ 2099 LITTLE GIANT \$ 599 \$ 1599



"Don't chain yourself to Meter Light!

Get the LITTLE GIANT."

AVERY LIBRARY COLUMBIA UNIVERSITY

Little Giant



Illustrated Catalogue No. 50

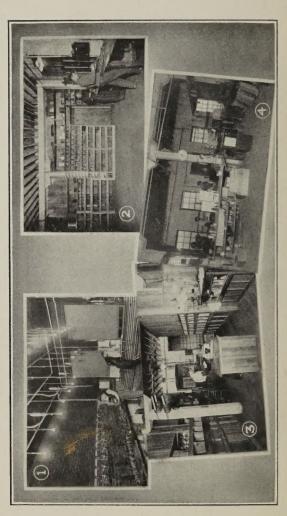
OF

LITTLE GIANT Lighting System

PIONEERS
IN GASOLINE LIGHTING
Established 1898

Allen-Sparks Gas Light 6.

LANSING, MICHIGAN, U.S.A.



E. E. Howey, Treasurer.

2-R. A. Astley, Secretary.

1-M. F. Sparks, President. M. B. Allen, Vice President,

3-General Office.

Introduction &



FILL the immediate and urgent demand until our large catalogue with over 100 illustrations is completed, ready for printers, and placed in circulation, we place before you this small booklet with illustra-

tions of a few of our leading fixtures, generators, tanks, etc., that we have been manufacturing and improving since 1898, being pioneers in our line.

Our Little Giant Lighting System which is now being used by thousands of up-to-date merchants in nearly every state in the Union, is passed upon and built to comply with the rules of the National Board of Fire Underwriters of Chicago, and we have applied for patents covering the many new improvements on same, letters of which will be included in our large catalogue to follow this issue. Any infringement will be prosecuted.

Operating the system requires no experience. Gasoline is placed in tank and is conveyed to generator under pressure, where it is converted into gas. From the generator gas passes through convey pipe to fixtures, and each mantle produces a light of 500 C. P. at about $\frac{1}{3}$ cent per hour, or one-fourth the cost of electricity or city gas. See cut on following page.

We solicit correspondence with users. Addresses herein named. Enclose stamp for reply.

ALLEN-SPARKS GAS LIGHT CO.

R. A. ASTLEY, General Manager

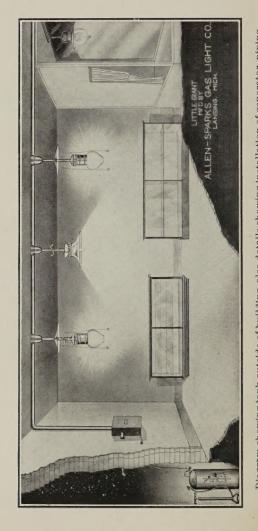
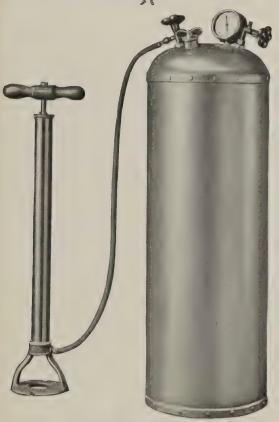


Diagram showing tank outside of building, also details showing installation of generator, pipling and fixtures, with all noise of mixing conveyed outside through air intake pipe.

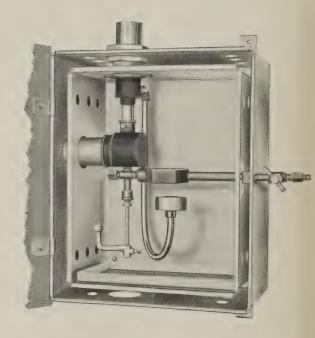


TANK PUMP AND GUAGE

Four-gallon tank, pump, gauge and funnel, code

word, "Pot," holds two gallons gasoline,
Six-gallon tank, pump gauge and funnel, code
word, "Box," holds three and one-half gallons gaso-

line.
Ten-gallon tank, pump gauge and funnel, code word, "Boy," holds six gallons gasoline.



GIANT GENERATOR, Models C & F

Giant generator, "Model C," code word, "Wine," operates from two to five mantles.

Giant generator, "Model F," code word, "Den," operates four to six mantles, not here illustrated, same construction as "Model C," with larger generator casting.

All Giant generators are generated by alcohol.

Always order a generator of capacity to equal largest number of mantles to be used on same and no more.

Gets Double the Light

C. M. Osburn, Coffee House, Syracuse, N. Y., states: My store is 100 feet by 17 feet, and it cost \$12.00 per month to light same with electricity. The present cost with nine No. 24 Giant Fixtures is \$4.50 per month. I get double the light.

SYRACUSE, N. Y.

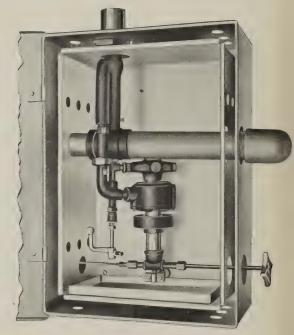
C. M. Osburn, Coffee and Tea.
Henry Fox, Billiard Hall.
Harvey Benn, Restaurant.
H. E. Newton, Drug Store.
Darius Smith, Drug Store.
C. G. McElwain Drug Store.
Tapner & Overhiser, Restaurant.
Rev. John Grimes, Church.
Edward Sabine, Saloon.
Chas, Fisher, Grocery and Meat Market.
Chris, Ecker, Saloon.
Onondaga Co. Milk Association,
John Augenstein (Split Rock), Hotel.
Philip H. Young, Saloon.
Adolph G. Lang, Saloon.
Fred J. Schweizer, Saloon.
W. H. Fitzgerald, Saloon,
Jerry Carey, Saloon.
W. H. Templeton, Drugs.
Weigland & Rice, Saloon.
D. B. Overhizer, Lunch Room.
B. F. Tapner, Lunch Room.

EAST SYRACUSE, N. Y.

John H. Hanlon, Hotel,
L. A. Sherwood (Solvay), Drug Store,
H. B. Bryant (Solvay), Drug Store,
Wm. J. Dorgan, Saloon,
Wm. Gilmore. Cigar Store,
Kohn Bros., Saloon,
Smith Bros., Saloon,
O'Donnell Bros., Hotel,
Chas. F. W. Miller, Hardware Store,
C. H. Sherwood, Drug Store.

GRANVILLE, N. Y.

E. R. Evans, Drug Store.
Geo. H. McDonald, Dry Goods.
H. C. Hemingway, Jewelry.
Sweet Bros., Dry Goods.
A. L. Minch, Department Store.
Robert T. Lloyd, Restaurant and Grocery.
Robert Kethkart, Bowling and Pool Room.
Granville Telephone Co.
Maurice A. Carter, Mfgr. Cigars.



GIANT GENERATOR, Model D

Giant generator, "Model D," code word, "Ale," operates four to twelve mantles, and as seen in cut, is so simple it is self-explanatory, and yet so scientifically constructed as a gas maker from gasoline, that the cost to maintain a high grade light is but a trifle compared with electric light and city gas.

Gasoline is converted into gas with this machine under a high heat, thereby consuming all paraffine in the gasoline, making a better grade of light.

Never attempt to operate our Giant generators with less than one and one-half inch convey pipe to carry gas from same, and this pipe must run straight up above generator at least two feet before branching off, otherwise the lights will not work satisfactorily.



Nothing Compares With It.

Manager of Elmira Bowling Hall, Elmira, N. Y., states: We have installed in our bowling alley (100 feet long, by 65 feet wide, containing ten alleys), 27 Little Giant lights, operating seven hours per day on 35 gallons of gasoline per week. Nothing compares with it for this purpose. You may refer to us.

SPRINGWATER, N. Y.

Robinson Bros., Hardware Store. H. H. Densmore, Drugs. Wm. King, Hotel. Clair Grover, Barber Shop. W. Robinson, Meat Market.

OSWEGO, N. Y.

Fred Brunswick, Barber Shop.
Peter Savas, Confectionery, etc.
A. J. Tovey, Hats, Caps, etc.
Smith Hardware Co., Hardware Store.
John Bulger, Saloon.
E. J. Murphy.
Adams Hotel.

ONEONTA, N. Y.

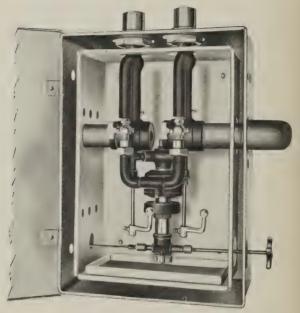
C. M. Marble, Pool Room,
Wm. W. Darbee, Stationery, Confectionery, etc.
E. A. Nye, Bakery.
Wm. Williams, Meat Market.
F. H. Monroe, Pool Room.
D. Kohn, Cafe and Oyster House.
Jas. Morton, Cafe.
F. S. Partridge, Wholesale Liquor Store.
F. H. Norton, Millinery.
F. H. Norton, House.

WEBSTER, N. Y.

Monroe Mfg. Co., Caskets.
Jones & Scribner, Hardware Store.
Geo, Witmer, Groceries.
Harris & Leaty, Drugs and Groceries.
Webster Preserving Co., Canning Factory.
Chas. Steve, Meat Market.

WHITEHALL, N. Y.

Jas. Dorens' Sons. Furniture and Hardware. Rochester Clothing Store.
John Cunningham, Cafe.
Wilford Vaughn, Cafe.
I. O. O. F. Hall.



GIANT GENERATOR, Model E

Giant generator, "Model E," code word, "Hay," capacity three to eight mantles on either line the two lines of pipe leading from the generator must positively work independent, and not be connected together.

Order generator of capacity to equal largest number of mantles to be used on right side facing generator, and also left, and no more.

There is not one tablespoonful of gasoline in your building while the "Little Giant Lighting System," is in operation and when plant is closed all gas is consumed out of convey pipe,

Saves \$6.00 Per Week

The Glass Bakery, Saratoga Springs, N. Y., states: We recommend "Little Giant" to all who want a good plant. We have an eight-light system which burns seven hours per day, the average cost, including supplies, being \$2.00 per week. The same light if bought from the gas company would cost \$8.00 per week. Refer prospective customers to us.

NORWICH, N. Y.

John E. Carr, Hotel. F. S. Powell & Co., Hotel. I. W. Rushmore, Creamery. Burton E. Reynolds, Drug Store. Burton E. Reynolds, Drug Store. B. F. Hubbard, Drug Store. Hicks & Tucker, Grocery Store. W. D. Southwick, Grocery Store. Homer L. Brown, Meat Market. Adney Wightman, Hotel,

C. B. Conway, Restaurant and Billiard Parlor. C. H. Latham, Hardware Store.

Saratoga Springs, N. Y., Glass & Sons, Bakery; S. A. Ford, Restaurant,
Utica, N. Y., W. H. Sauer, Meat Market.
Stittsville, N. Y., C. H. Evans, Residence.
Hammond, N. Y., George H. Wylle, Drugs.
Kirkville, N. Y., Sweeting & Mosher, General Store.

Store.
Canajoharie, N. Y., C. E. Maylender, Notions, etc.
Fonda, N. Y., Jas. H. Chase, Hotel.
Fort Hunter, N. Y., Fred Wittemier, Residence,
Machias, N. Y., Rush & Hubbard, General Store;
New Town Hall.
Elmira, N. Y., Elmira Bowling Co.
Ithaca, N. Y., J. P. Stanley; Tioga Bowling Hall

Co.

'Gloversville, N. Y., S. Geo. Holmes, Saloon. S. E. Frazier, Restaurant;

Geo. Holmes, Saloon.
Carthage, N. Y., Arnot & Meyers; Chaufty Bros.
Yonkers, N. Y., May & Williges, Restaurant; O.
K. Bowling Alley and Billiard Parlor.
Lyons, N. Y., Moore & Moore, Druggists.
North East, Pa., H. P. Cline, Confectionery, etc.;
A. P. Cushman, Shoe Store; Salchow & Baldwin, Drugs.
Ashford, N. Y. Bigg & Worst, Gonger Store.

win, Drugs.
Ashford, N. Y., Rice & Weast, General Store.
Schenectady, N. Y., Ernest A. Blaze, Saloon;
Henry Von der Ahe, Saloon.
Albany, N. Y., J. & A. Steiert, Dry Goods, etc.;
G. V. & F. W. Cameror., Hardware, etc.
Alton, N. Y., F. Bridger, Hotel; Chas. Burns,
Warehouse; Fish, Burns & Fish, Hardware.



GIANT ARC Nos. 24 and 29

No. 24—Giant Arc, 500 C. P., code word, "Owl." here illustrated, twenty-four inches long, one mantle, fitted with No. 180 opal shade.

No. 29—Giant Arc, 1000 C. P., code word, "Ox," same as No. 24, excepting larger pipe and valve, also two mantles.

two mantles.

Nos. 24 and 29 equipped with chains, or No. 190 ceiling plates, extra charge.

Saves 25c Per Day

Alex Kidd, proprietor The Arlington Hotel, Sarnia. Ontario, Canada. states: We use nine Giant lamps in our hotel and bar. It costs 25 cents per day to operate same. It cost, with city gas and electricity, which we previously used, 50 cents per day, and we received only one-third the light.

ELORA, ONT.

J. J. Powers, Cigar Store and Pool Room. Dewitt Mooney. Druggist and Optician, Merchants' Bank of Canada. R. M. Boswell, Grocery. R. C. Church. Alex Davidson, Shoe Store. Club Rooms. Carnagie Library. Wm. Campbell. Dry Goods. Clothing, etc.

Sarnia, Ont., Geo. W. Reeves, Cigar Store and Billiard Hall; Alex Kidd, Prop., The Arlington Hotel. Courtright, Ont., P. J. Bedard, Bedard House. Fingal. Ont., D. A. Catanach, General Store, Shedden, Ont., W. H. Morrison, General Store. Alma. Ont., Alma Methodist Church.

Copetown, Ont., David Lawson, General Store, Kenilworth, Ont., Henry C. Goetz, General Store. Woodstock, Ont., Thos W. Goodyear, Drug Store.

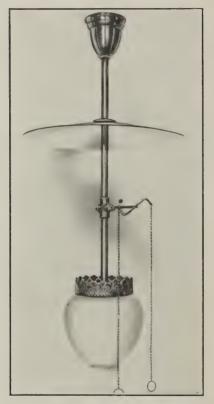
Oneida, N. Y., Henry M. White, Hardware Store; A. P. Huggins, Pool Room; R. B. Downing, Dry Goods.

Dry Goods,
Fort Ann. N. Y., Michael Joy, Pool Room and
Cafe; A. H. Fell. Ice Cream Parlor.
Port Crane, N. Y., Frank Robson. Blacksmith.
Lestershire, N. Y., H. A. Miller, Mfgr. Cigars,
Ludlowville, N. Y., M. L. Ford, General Store.
Van Ettan, N. Y., B. G. Daly, General Store;
Banfield Bros., Vehicles and Lumber.
Cortland, N. Y., H. A. Vail, Drug Store,
Harford Mills, N. Y., L. A. Gardner, Agricultural
Implements.

Implements.

Groveland Station, N. Y., Cameron & Thompson, General Store; Gamble Wilson, Hardware Store. Conesus, N. Y., Scott L. McNinch, Residence; B. F. Sutton, Hotel; L. E. Van Doren & Co. Avoca, N. Y., Presbyterian Church.

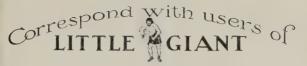
Correspond with users of GIANT LITTLE



ASTLEY ARC Nos. 80 and 90

No. 80—Astley Arc, 500 C. P., code word, "Cow," here illustrated, thirty inches long, one mantle, fitted with No. 448 opalescent globe and No. 190 ceiling plate. No. 90—Astley Arc, 1000 C. P., code word, "Dog," same as No. 80, excepting larger pipe and valve, fitted with No. 447 opalescent globe, also two mantles used. No. 40—Code word, "Pig." same as No. 80, without ceiling plate.

ceiling plate.



Heavy Construction Makes Capacity

Sarling Shoe Co., Columbus, Ga., states: I am using seven No. 24 Giant Fixtures of 500 C. P. each, and wish to state that the "Little Giant" light is the most economical and all around light we ever saw. The generator is heavily constructed and has the capacity to do its work well.

COLUMBUS, GA.

L. M. Thweatt, Dry Goods and Shoes. Everidge Bakery.
Union Restaurant.
Daylight Cafe.
J. R. Pace, Pool and Billiards.
H. Bonfield, Dry Goods.
Sarling Shoe Co.
Columbus Cafe.
Van Thompson, Pool Room.
Christian Church.
Steve Brown, Restaurant.
J. T. Knowles, Clothing.

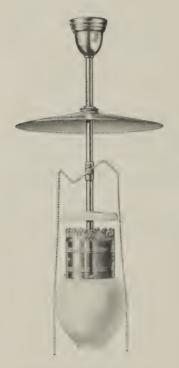
Columbus, Pa., Frank Scholton. Hardware Store; Ralmstone & Carriers, Grocery. Sugar Grove, Pa., A. M. McDonald, Postoffice. Chandlers Valley, Pa., Duell & Carlson, General Store. Spartansburg, Pa., S. A. Winans & Son, Grocery and Meat Market. Olyphant, Pa., Clark Bros.

Manlius, N. Y., John Kantak, Hotel.
Amber, N. Y., George Maxwell, Hotel.
Jordan, N. Y., M. A. Strickland, Saloon,
Minoa, N. Y., Strodel & Platz. General Store.
Lyons, N. Y., Geo. Getman, Drug Store.
Livonia. N. Y., Mrs. A. H. Kinney, Millinery; C.
W. McNain, Groceries; Abner Bartlett, Ice
Cream.
Chittenango, N. Y., G. L. Wood, Hotel; Catholic
Church; Geo. W. Carpenter & Son, General

Store.
Stafford, N. Y., M. E. Church.
Resort, N. Y., John Schmeizer, Hotel.

Westfield Ind I H Cox Residence

Westfield, Ind., J. H. Cox, Residence, Baker's Corner, Ind., Wesleyan Church, Denson, Ohio, John W. Bell, General Store, Mobile, Ala., O. T. Arnold, Shoe Dealer; A. A. Richards, Fancy Groceries; John Sims, Billiard Parlor.



ASTLEY ARC No. 50

No. 50—Astley Arc, 500 C. P., code word, "Cat." above illustrated, thirty-six inches long, one mantle, fitted with No. 48 opalescent globe and No. 190 ceiling plate.

This ornamental fixture is so constructed with double cylinder that the oxidizing will not be tarnished by heat.

Comparison With Electricity

D. F. Davenport, Drugs, Americus. Ga., states: Since installing your Little Giant Lighting System our monthly expense for light has been reduced to \$3.50 per month, and we have one-third more light. Former cost for light with Tungsten lights was \$20 to \$30 per month.

AMERICUS, GA.

McLaughlin Drug Co.
Christophulos Cafe.
D. F. Davenport, Drugs and Soda Fountain.
Hamilton & Co., Department Store.
Pinkston Co., Department Store.
Mike Thomas, Confectionery Store.
Cliff Clay, Cigars and Soda Fountain.
Duncan Mercantile Co., Dry Goods.
D. Pearlman, Dry Goods.
S. A. Daniels, Jewelry.
Americus Cafe.
Crystal Ice Co.
W. Y. Ayash.
J. W. Shiver.

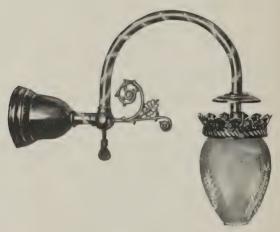
GRIFFIN. GA.

Head Drug Co., Drugs. Strickland & Crouch Co., General Store. Carlisle & Ward, Drugs. People's Drug Co., Drugs. Bass Bros. Company, General Store.

HATTIESBURG, MISS.

Conner Shoe Co., Shoes,
Rubenstein Bros., Clothing.
O'Ferrall Bros., Department Store.
The Stag Restaurant.
Palace Cafe,
Hawkins Hardware Co.
Bufkin Drug Co.
Abney Furniture Co.
E. C. Neeley Co., Dry Goods.
Palace Billiard Hall.
H. H. Graham Jewelry Co.
H. Lillius, Jewelry.
Owl Drug Store.

Batesville, Miss., Booth Mercantile Co., General Store; Walter L. Baker, Pool Room. Oakland, Miss., Pritchard Bros., General Store; Oakland Mercantile Co., General Store; W. K. Black, Residence.



GIANT Nos. 26 and 27

No. 27—Giant, 500 C. P., code word, "Ice," here illustrated, fitted with No. 70 acid-etched globe.
No. 26—Giant, 500 C. P., code word, "Snow," same as No. 27, except being a straight fixture, thirty inches

long, with chains.

We recommend our 500 C. P. fixtures, as they distribute the light with less shadows than a fewer number of fixtures of 1000 C. P., and save about 10 per cent on quantity of fuel used, in getting equal results.



Best They Ever Worked Under

Moler Barber College, Atlanfa, Georgia, John H. Moler manager, states: We are more than pleased with the fine light we are getting for barber work from the "Little Giant." It is surely the best light we ever worked under, and the expense is only one-fifth that of electricity.

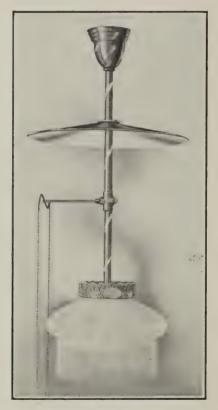
ATLANTA, GA.

Eowen's Cafe, Saloon and Soda Fountain.
Trio Steam Laundry.
Paul Smith. Billiard Parlor.
Moler Barber College,
Walker-Colley Furniture Co,
Atlanta Store Lighting Co.
W. R. Jester, Cigars and Soda Fountain.
Walter Sloan, Department Store.
Southern Soda Water Co.
James Alexander, Cafe,
D. Nichols & Son, Contractors.
Mitcham & Miller, Dry Goods.
George Metropapas. Restaurant.
George Perfinis, Restaurant.
New York Restaurant and Ice Cream Parlor.

Decatur, Ga., Venable & Weeks, Grocery Store. Lithonia. Ga., Tucker's Pharmacy. Eatonton, Ga., DeJarnett, Branch, Gregory Co.. General Mdse.; Shevers & Belvin, Drug Store Fairburn, Ga., J. T. Longino, Drug Store. Leslie, Ga., Griffin & Wallace. Plains, Ga., First Baptist Church. Marietta, Ga., W. A. Gatlin, Grocery Store. Conyers, Ga., M. H. Plunkett. Grocery. Forsyth, Ga., M. Kaplan, "The Fair." Canton, Ga., D. Saul, "The Fair." Albany, Ga., Rialto Saloon Co., Dawson, Ga., People's Drug Co.

Oxford, N. Y., Ira A. Mowry, Grocery.
North Norwich, N. Y., W. S. Peck, Residence.
Greene, N. Y., Mrs. J. J. Merchant, Millinery.
Mt. Vision, N. Y., First Methodist Church.
Skaneateles Falls N. Y., Robert Meagher, Store.
Binghamton, N. Y., H. A. Dodd, Restaurant; E. H.
Brown, Saloon.
Parish, N. Y., P. D. Edick, General Store.

Brown, Saloon.
Parish, N. Y., P. D. Edick, General Store.
Hastings, Oswego Co., N. Y., F. L. Tourot, Hotel.
West Laurens, N. Y., Henry Culver, Residence.
Morris, N. Y., Albert Tilson, Residence.
Hobart, N. Y., J. B. Borst, Jeweler.



ALLEN ARC No. 4

No. 4—Allen Arc, 500 C. P., code word, "Hen," here illustrated, thirty inches long, one mantle, fitted with No. 100 bead fringe shade and No. 190 ceiling plate.

Designed to fill the demand where a most elaborate fixture is desired.

Has Good Light on Dark Days

G. V. and F. W. Cameron, Hardware Dealers, Albany, N. Y., state: We have operated a Little Giant Lighting System for over one year, and find it economical that we do not hesitate to burn lights all day on dark days. The expense of operating has no comparison with gas and electricity, and get a much better light.

CLAYTON, N. Y.

S. E. Howard, Billiard Parlor, J. H. Hambley, Shoe Store, L. Leitherman, Grocery Store, Catholic Church Basement, Joseph F. Graves, Grocery Store. Farrell & Whitney, Plumbers.

CANASERAGA, N. Y.

James Craig & Son, General Store. A. J. Stadelman, Tailor. F. P. Allen, Ten Cent Store. J. A. Daley, Hotel.

MARION, N. Y.

Goosen & Steyaart, Dry Goods and Groceries. Wayne County Canning Co., Canning Factory. Dutch Reformed Church. Christian Church.

PALMYRA, N. Y.

D. W. Briggs, Druggist. B. H. Davis & Co., Groceries. Smith & Zeigler, Jewelry. John Lecoussis, Confectionery.

CHAFFEE, N. Y.

Willis & Templeton, Hardware, Louis Smiler, Saloon. S. J. Gilbert, Barber. Ward & Allen, General Store.

Fulton, N. Y., M. D. Mulcahy, Cigars, etc.; G. E. Tramblay, Barber Shop. Avon, N. Y., James Greene, Hotel; Geo. Peck, Saloon; Ross Rumfola, Saloon, Moscow, N. Y., C. O. Atherton, Dry Goods and

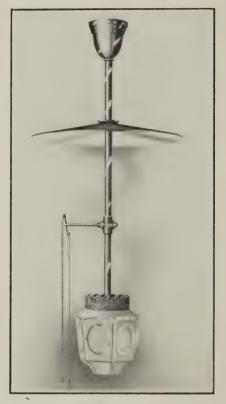
Grocerles. Cincinnatus, N. Y., Baldwin & Smith, Department Store.

West Oneonta, N. Y., E. H. Culver, General Store; Geo. Cridenwise, Residence. Central Square, N. Y., Geo. Gosling, Saloon; A.

J. Bennett, Grocery.

Mexico, N. Y., Cook, Jordan & Ramsey, General

Store.



ALLEN ARC No. 5

No. 5-Allen Arc, 500 C. P. code word, "Man," here illustrated, thirty inches long, one mantle, fitted with No. 190 ceiling plate and No. 34 hexagon frosted globe, making a beautiful appearance.



Seven Years Test

Bare & Gillett, Hardware Store, Charlotte, Mich., write: We highly recommend your Little Giant Lighting System after a most thorough test of seven years.

CHARLOTTE, MICH.

Charlotte, Mich., Fred Emery, Drugs; Weaver Bros., Drugs; J. H. Bryan, Drugs.

MARINE CITY, MICH.

Stephen Pasterino, Confectionery and Cigars. R. F. Squires, Drug Store. Rochester Clothing Co., Clothing Store. Lee Carter, Cigars, Ice Cream, etc.

ALGONAC, MICH.

J. J. Poole, General Store.
James Gilbert, General Store.
A. J. Wallace, Hardware and Plumbing.
Lacroy & Co., Dancing Pavilion.
Vernon Harsen, Cigar Store and Pool Room.

COFFEEVILLE, MISS.

W. L. Kennedy, General Store. J. H. Bates & Co., Drug Store. Bailey Bros., General Store. Coffeeville Hotel. Goodwin & Pate, Hardware, Drugs, etc. Postoffice.

MILWAUKEE, WIS.

J. J. Markin, Wines, etc.
Julius Hittman, Restaurant.
John Gellner.
Buech & Baeumle, High Class Restaurant.
Riverview Skating Rink (largest in middle west).
Miller Cafe. Buech & Bauemble.
F. Pollworth & Bro., Printing.
John H. Gellner, Buffet.
Runge & Zainer.
Birgbauer's Winter Garden.
J. J. Guenther, Cafe.
O. K. Chop Suey Restaurant.
Goodrich Annex Palm Garden.



ASTLEY ARC No. 60

No. 60—Astley Arc, 1000 C. P., code word, "Carp," above illustrated, thirty-six inches long, two mantles, fitted with No. 447 opalescent, pear shaped globe, and No. 190 ceiling plate.

Very ornamental and so constructed with double

Very ornamental and so constructed with double cylinder, that the oxidizing will not be tarnished

by heat.

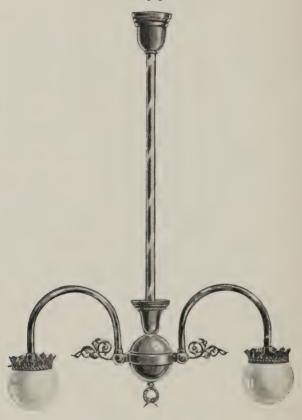
No Regrets

Mills Dry Goods Co., Lansing and Mason, Mich., states: About three years ago we installed a Giant Lighting System in our store at Lansing, Mich., and about six months later we installed another at our store in Mason, Mich., and have never regretted this move, as we are saving on an average of \$30.00 per month and getting a much more satisfactory light. We are using twelve of the No. 31 Sparks fixtures.

LANSING. MICH.

Frank Almendinger, Saloon.

Chamberlain's Restaurant. Fred W. Barratt, Grocery. M. C. Bowdish, Meat Market. Briggs Co., Cement, Hay, Grain, etc. Cook & Skadan, Bowling Alley, Bugbee Bros., Restaurant. Geo. H. Bonnell, Photographer. Christopher & Loftus, Grocery. Clapham Bros., Grocery. Fred Clark, Barber Shop. Otto Eichele, Saloon. Fishbeck & Co., Dry Goods. E. A. Gilkey, Grocery, C. B. Haight, Barber Shop. C. B. Haight, Barber Snop.
 Chas. De Rose Fruits, Confectionery, etc.
 Van, the Tool Man, Factory Supplies, etc.
 H. C. Ward & Son., Furniture.
 Desenberg's Store, Ladies' and Gents' Furnishings. John Buehler, Grocery Store. J. C. Chaddock, Furniture. Arthur Fry. Meat Market. Fred Heiler, Cigar Store. A. D. Huntington, Restaurant. James Johnson, Barber Shop. Jones & Houghton, Drug Store, Edward Killian Confectionery Store, Cadillac Cigar Store. Fred Miles, Restaurant.
Mills Dry Goods Co., Dry Goods,
Frank Morofsky, Shooting Gallery,
E. E. Ransier, Restaurant.
E. H. Robertson & Son, Drug Store. Fred Robinson, Pool Room.
W. C. Rogers, Barber Shop.
Spaulding & Co., Saloon and Restaurant. A. D. Sturgis, Drug Store, Swanton Drug Co., Drug Store. J. W. Tracy, Restaurant.



GIANT Nos. 28 and 31

No. 28—Giant, 1000 C. P., code word, "Eat," here illustrated, twenty-eight inches long, two mantles, fitted with No. 90 clear frosted top globes, or special with No. 70 fancy etched, or No. 33 holophane shades. No. 31—Sparks Special, 1000 C. P., code word, "Nail," same as No. 28, fitted with No. 33 holophane shades. See holophane shade, page 40,



Good Light for Billiard Halls

John Schwickert & Son, Cigar Store and Billiard Hall, Port Huron, Mich., state: Our billiard and cigar store is 85 feet by 20 feet, and we light same with 9 No. 24 Giant Fixtures and 1 No. 20 outside arc of 1000 C. P. We use two gallons of gasoline per day, and get double the light we have ever had.

PORT HURON, MICH.

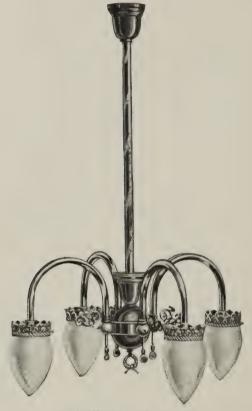
Geo. C. Luz & Co., Wall Paper, Carpets, etc. J. B. Haviland Co., Manufacturers Confectionery. Fred Hoffman, Cigars, Billiards, etc. John Schwickert & Son, Cigars, Billiards, etc. G. G. Harper, Pool Room and Barber Shop. Casello & Son. Fruits, Confectionery, etc. Peter Treleaven, Grocery and Meat Market.

NASHVILLE, MICH.

Kraft & Son, Groceries and Crockery.
W. B. Courtright, Bazaar, etc.
C. L. Glasgow, Furniture, Hardware and Implements.
Von W. Furniss, Drug Store and Jewelry.
Spig & Reynolds, Barber Shop.
Mrs. R. J. Giddings, Millinery.
Chas. Dianmante, Fruit and Confectionery.
Chas. Brown, Drugs and Jewelry.
M. C. Whitney, Restaurant,
John Greene, Tailor.
Chas. Schidt, Pool Room.
John Ackett, Meat Market.
E. V. Barker, Bakery and Restaurant.
Kocher Bros., Dry Goods, Carpets, etc.
John Appleman, General Store.
First Baptist Church.
C. A. Pratt, Hardware.

HASTINGS, MICH.

Fred J. Barnaby, Cigars, Confectionery and Restaurant.
Fred L. Heath & Carvath, Drug Store.
W. J. Holloway, Drug Store.
Quincy A. Hynes, Drug Store.
A. E. Mulholland, Drug Store,
Frank Horton, Groceries and Dry Goods.
Roy Hutchinson, Groceries.
W. H. Meyers & Son, Harness, Trunks, etc.
C. D. Barnaby, Palace Cafe.
John Bessmer, Jewelry.
Cox & Slattery, Barber Shop.
F. McElwain, Pool Room.



GIANT Nos. 30 and 35

No. 30—Giant Cluster, 2000 C. P., code word, "Pea," above illustrated, thirty inches long, four mantles, fitted with No. 71, frosted top globes, and special with No. 70 fancy etched, or No. 33 holophane shades.

No. 35—Sparks Cluster, 2000 C. P., code word, "Book." same as No. 30, fitted with No. 33 holophane shades.



Experience Varied and Costly

E. E. Ransier, Hotel, Lansing, Mich., states: My experience and cost of lighting my place of business has been very varied and costly. The city gas system cost me on an average of \$55.00 per month, electric lights \$42.00. Pitner Wire System \$18.00, and the Allen-Sparks System \$7.30 per month, and it is the best light I ever had.

LANSING, MICH.

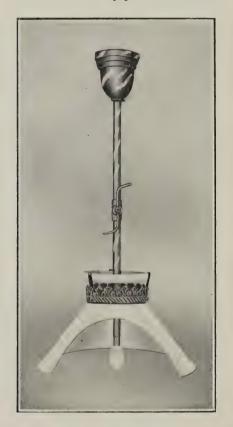
Whitmore & Rogers, Leather Goods, Carriages, etc.
A. J. Whitman, Barber Shop.
Waverly Park, Five Cottages.
George E. Bayley, Restaurant.
Monty J. Ellsworth, Saloon.
C. E. Cady, Grocery Store.
S. H. Scheidt, Lunch Room.
Frank Skadan, Billiard and Pool Room.
August C. Roller, Meat Market.
Wm. Spagnuolo & Bros., Fruits, Confectionery, etc.
Michigan Fruit Co., Fruits, Confectionery, etc.
Frank Cascarelli, Fruits, Confectionery, etc.

OWOSSO, MICH.

Louis Dennis, Saloon.
K. G. Wildermuth, Saloon.
Arvanite & Ide, Confectionery.
F. Bessinger & Son, Saloon,
W. B. Lovett, Cafe.
Harry Capitan, Confectionery.
Owosso Light Infantry,
Lyon & Pond, Dry Goods, Carpets, etc.
A. C. Herman, Billiard Hall.
Chas. Lawrence, General Store,
Hughes & Son, Electric Laundry.

FLINT, MICH.

Ed Allingham, Restaurant.
M. F. Henry, Restaurant.
James Hawley & Son.
E. L. Devereaux, Grocery.
Frank Dullam & Son, Drugs.
Hodges & Willett, Cigars.
O. P. Safford, Drugs.
Gus Pratt, Confectionery.
I. A. Laird & Co., Furniture.
Guy Lewis, Cigars, Pool,
George Hartley, Billiard Hall.
A. K. Du Boise.



GIANT ARC No. 25

No. 25—Giant Arc, 500 C. P., code word, "Ant," above illustrated, twenty-four inches long, one mantle, fitted with No. 170 sheet steel alumined shade.

This arc was designed for lighting bowling alleys and so constructed as to throw light on the plns and not on the eyes of the player.

34



One-Third the Cost of Electricity

James A. Mitchell, Dry Goods, Bay City, Mich., writes: The Little Giant Lighting System is the only light we have ever been able to match colors by. With this system we are getting double the light at one-third the cost of electricity.

BAY CITY, MICH.

O. F. Meiselbach, Residence. George Steinger, Bakery. People's Department Store Charles Bartells, General Store. Havana Restaurant. Havana Restaurant.
W. F. Fowley, Drug Store.
F. K. Warner, Drug Store.
H. C. Hargadon, Drug Store.
J. E. Martin, Drug Store.
D. B. Perry, Drug Store. Geo. S. Dijas, Billiard Room, Rochards Bros., Billiard Room. J. F. Bindner, Saloon. Thos. Brazill, Hotel. B. Goldstrom, Dry Goods Store. Valley City Creamery Co. Wm. J. Noneman, Saloon. Elliott & McAllister, Saloon. Fred Allman, Saloon. Geo. Gougeon, General Store and Meat. Oscar Hutschenrenther, Saloon. J. E. Knapp, Drug Store, James A. Mitchell, Dry Goods. Miller & Wechsler, Saloon. Geo. L. Mosher, Hardware Store. Thomas & Hartwick, Grocery Store. Oliver Valada, Groceries and Confectionery. Geo. Webber, Residence. Paul Guoan, Hotel. Jas. LaPoint, Hotel. Geo. Behmlander, Meat Market. Hotel Arlington. Gracey & Cameron, Billiard Hall. F. Benson, Saloon.

WILLIAMSTON, MICH.

First Baptist Church.
M. E. Church.
R. G. Hunter, Tin and Sheet Metal Work.
A. W. Kitchen, Saloon.
Geo. Dunn & Co., General Store.
Congregational Church.
C. W. Granger, Bakery, Confectionery, etc.



GIANT Nos. 21 and 22

No. 21.—Giant Arc, 1000 C. P., code word, "Sex," above illustrated, and equipped regularly with No. 447 opalescent globe, two mantles, one piece of one-inch gas pipe twelve inches long, one piece twenty-four inches long and one one-inch elbow. Unexcelled for lighting store fronts. Valve must positively be placed inside, in cold climate, to avoid condensation.

No. 22—Giant Arc, 500 C. P., code word, "Band,"

same as No. 21, excepting one mantle.

Have Tried Them All

John J. Roberts, proprietor of music house. John J. Roberts, proprietor of music nouse. Battle Creek, Mich., says: I have now been using Little Giant Lighting System for 5 years with complete satisfaction. My store is thoroughly illuminated with a clear, steady, white light which leaves nothing to be desired, and at a cost far less than any other medium I know of, and I have tried them all.

BATTLE CREEK. MICH.

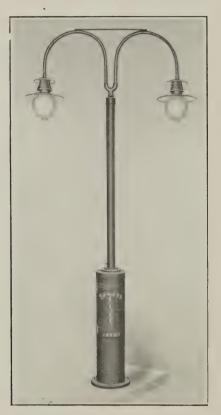
East End Pool Rooms. John Evans, Barber Shop. Last Chance Saloon. Jack Lindauer, Barber Shop. W. C. Phelps, Grocery Store. Geo. A. Southerton, Grocery Store. B. H. Peet, Saloon. Robert Melrose, Saloon. J. E. Weeks, Drug Store. Chas, Harbeck, Shoe Store. Fred Wagner, Bicycles, Phonographs, etc. Brockett & Sons, Hardware Store. Eugene Stewart, Laundry. Claud Wyckoff, Barber Shop. Dunn, Strickland & Carney, Clothing Store. Red Cross Pharmacy. I. D. Smith, Postal Specialties.C. G. Smith, Cafe. Wm. H. Eldred, Confectionery Store. Frank L. McClintic, Drug Store. Geo. Klemos, Confectionery Store.

John Roberts, Music Store. Routier & Co., Furniture. C. R. Brownell, Music Store. A. J. Erwin, Drug Store. F. L. Triquet, Barber Shop. Ash Bros., Ice Cream, Confectionery, etc.

ST. CLAIR, MICH.

J. R. Whiting & Co., Department Store. J. R. Whiting & Co., Department Store, Morey Dry Goods Co., Dry Goods Store, David P. Ingles, Clothing and Millinery, E. S. Hart & Co., Hardware and Plumbing. Beyschlag Bros., Meat Market, G. T. Hornberger, Harnesses, Trunks, etc. Albert Draper & Co., Mfr. Leather Fly Nets, Chas., Husel, Farm Residence, Leavely Drandrey, Grocery, Store Joseph Dandron, Grocery Store.

Pierre, South Dakota, J. E. Mallery, Clothing Store; A. J. Lowe, Clothing Store, Alvordton, Ohio, W. I. Sampson, General Store. Montpeller, Ohio, West Eagle Creek Presbyterian Church.



SPARKS STREET LIGHT No. 900

No. 900—Sparks Street Light, 2000 C. P., code word "Log," here illustrated, thirteen feet high, equipped with two No. 21 Giant Arcs, one "Model D." Giant Generator and one special tank holding two gallons gasoline, and so constructed with double gas pipe that the most severe weather has no effect on the light, weight about 600 pounds.



Reduction \$40.00 to \$10.00

John C. Hartz & Co., Clothing Store, Detroit, Mich., writes: My store is now lighted better than ever before at a cost of \$10.00 per month, with Little Giant Lighting System. I estimate that the same amount of light with city gas would cost \$40.00 per month.

DETROIT, MICH.

Following are a few of Little Giant Lighting Systems in perfect daily operation in Detroit:

Henry Arena, Two Shoe Stores. Stanley Bonczak, Clothing and Furnishings.

Al C. Brocki, Cafe.

Boston Bargain Store, Dry Goods. Fred Barton, Cafe and Bowling Alley. A. E. Bauer, Cafe.

Buhl & Hennessy, Cafe.
Barney Clark, Cafe.
S. Cohn, Wholesale Dry Goods and Furnishings.
H. H. Cottong, Cafe.
Wm. Closser, Cafe.
Gus Dieball, Cafe.

Michael Dolan, Cafe. Chas. Elliott, Drug Store.

Jno. C. Evans, Bowling Alley and Cafe. A. Fineberg, Clothing and Furnishings.

Finn & Laskey, Wholesale and Retail Liquors. J. B. Greenberg, Clothing.

Goodyear Raincoat Co., Raincoats and Rubber Goods.

A. Grossman, Cafe. H. C. Goldberg, Clothing and Furnishings. Antony Glowczewski, Dry Goods (General).

Jno. Holomany, Cafe.

Mrs. A. Hrebieck & Son, Dry Goods and Shoes.

Jno. Hazzard, Cafe.

Hotel Cato, Duncan McDougal, Prop.

Jno. C. Hartz & Co., Clothing and Furnishings. Jacobs & Friedman, Wholesale Furnishings, Hats and Caps.

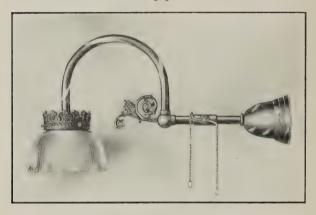
Jacob Kraft, Cafe. M. King & Sons, Clothing and Furnishings.

Chas. Kessler, Liquor Store. Geo. J. Kirn & Bro., Bowling Alley, Billiards. Cafe. Kentucky Liquor Co., Wholesale and Retail Liquor

Store.
Geo. W. McCurdy, Bowling Alley and Cafe.
Wm. Matla, Hotel.

Maryland Liquor Co., Liquor Stores, K. Mioskowski, Shoe Store.

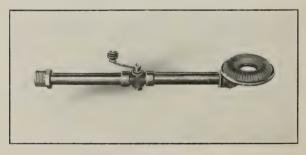
Louis Miller, two Stores, Dry Goods, Clothing and Furnishings.



GIANT Nos. 1 and 2

No. 1—Giant 500 C. P., code word, "Door," above illustrated, one mantle, fitted with No. 33, Holophane shade.

No. 2-Giant, 500 C. P., code word, "Fly," same as No. I. except being a straight fixture thirty inches long, with chains.



GIANT BURNER No. 100

No. 100—Giant Burner, code word, "Ham," twelve inches long and uses same quantity gas as three mantles.

This burner is designed for attaching to gas stoves or anywhere that heal is desired for cooking, etc. However, we do not recommend it to be used on same generator that is used for lighting, an extra generator should be used independently for this purpose.

40



Giving Entire Satisfaction

M. Van Vliet, Druggist, Detroit, Mich., states: The "Little Giant" is giving us entire satisfaction. The cost of operating is \$3.00 per month, against former cost of \$10.00 per month for electricity, and we received only one-half the light we are now getting.

DETROIT. MICH.

Jacob Maday, Shoe Store. Albert Marks, Bowling Alley and Cafe. People's Bargain Store, Dry Goods, etc. F. A. Pasternacki, Dry Goods, etc. M. A. Pollard, Cafe.
B. A. Piaskowski, Drug Store.
L. A. Phaup, Cafe. Ignacy Paieczny, Clothing and Furnishings. Perlmuter & Freidenberg, Clothing. M. A. Pereira, Jewelry and Furnishings. E. N. Page, Confectionery and Pool Room. Subway Hotel, Allen & Larr, Props. H. Rosenberg, Department Store. B. Rush, Dry Goods, etc. Martin Radecke, Grocery and Meats.

Julius Stocker, Clothing and Furnishings.

S. Silberstine, Clothing, Dry Goods, etc. H. Steinberg & Sons, two Stores, Bazaar and Clothing. Wm. Sieg, Drug Store.
H. Sapiro & Co., Clothing, Shoes and Furnishings.
Schehr Grocery Co., Groceries.
Harry Tyler, Restaurant and Cafe.
M. Van Vliet, Drug Store.
West End Grocery, Groceries and Meats. R. Zuieback, Dry Goods, etc.

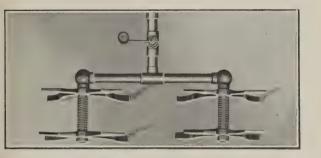
SAGINAW, MICH.

Moeller & DeLand, Drug Store. Havana Restaurant. Philip Ittner, Dry Goods. W. W. Gunn, Saloon and Billiards.

VERMONTVILLE, MICH.

H. G. Barber & Son, Hardware, Barber Bros., Dry Goods and Clothing, Bank of Homer G. Barber. Masonic Lodge. Henry Mull, Meat Market.





GIANT BURNER No. 61

No. 61—Giant Burner, code word, "Pike," above partially illustrated, and used only in connection with No. 400 Little Giant sample case, to complete camping outfit, equipped with valves and connections so that this burner will stand on top of sample case and so adjusted that these burners or the light can be operated independently.

No. 400—Little Giant Sample Case, 2000 C. P., code word, "Bass," manufactured of cypress wood, covered with heavy canvas, decorated and trimmed with metal, door adjusted so as to be easily removed when demonstrating, size 10x19x25 inches, weight 45 pounds. No. 190 ceiling plate, wrench, pump, funnel, small sample piece of 1 1-2 inch convey pipe, one dozen Giant rag mantles, and a four-mantle fixture, all of which are easily packed in sample case for carrying.

This sample case is illustrated on opposite page and must be especially adjusted at our factory, if used to operate No. 61 Giant burner.

Endurance of Giant

Norris City, Ill., Jan. 10th, 1910. J. H. Willis, Jeweler, writes: I have used your "Little Giant" seven years. Previous to this I used several kinds of gasoline lamps,, and have repaired

several kinds of gasoline lamps, and have repaired gasoline lamps for the past six years.

I believe the "Little Giant" to be the best system on the market today. There are several lighting systems in operation here, and it is the verdict of all that the Allen-Sparks gives the whitest light, the least noise and the most light of all. Its generator is much larger than other makes, which allows no clogging, and as an engine needs a powerful boiler for good power, so the large generator gives the quantity of light with the greatest regularity of any on the market today. Buy the Allen-Sparks is my last request. last request.

GRAND LEDGE. MICH.

V. E. Baribeau, Billiards. M. P. BEECH, General Store. Fred R. Bromley. Drugs. Campbell & Chappell, Drugs and Groceries. Campbell & Chappell, Drugs and W. H. Cregg, Billiard Hall. A. O. Halstead, Drugs. A. B. Hixson, Cigars. Horace Hodge, Billiard Hall A. E. Lambie, Clothing, R. N. Nott & Co., Dry Goods. W. C. Rossman, Groceries. A. B. Schumaker, Druggist. A. W. Sekell, Furniture. C. J. Tucker, Department Store James Winnie, Handware. James Winnie. Hardware. Kern Johnson, Barber.

SWARTZ CREEK, MICH.

W. L. Miller, Post Office, H. B. Freeman, General Store, M. D. Davison & Co., General Store, Mrs. M. Todd, Millinery, Mrs. M. Wright, Residence, Mr. Samuel Goodyear, Residence. Mr. Elmer Gotshall, Residence. M. E. Church.

FENTON. MICH.

McCurdy & Goodfellow, Clothing. Geo. Cole. Dry Goods, Notions, etc. W. W. Watson, Tailor. Post Office. A. W. Hay, Grocery Store.



Eight Years of Satisfaction

A. O. DuBois, General Merchant, Leslie, Mich., says: I have used your lighting system six years and find same entirely satisfactory, the Generator being constructed of heavy brass castings, to stand the high heat it is subject to in making the gas. My store is 20 by 75 feet long two stories, and I have installed 11 No. 24 Giant fixtures, 500 C. P. each, which light my entire store to brilliancy. I operate the lighting system on an average of three hours per day, using one gallon of gasoline only.

OWENDALE, MICH.

Post Office.

W. C. Jones, Hardware and Implements.
M. E. Church.
G. W. McElmurray, Post Office and Drug Store. G. H. Zinnecker, Furniture and Undertaking.

AUBURN. MICH.

S. Fleischer, General Store. I. O. O. F. Hall. J. C. Widmer, General Store. H. F. Lauckner, Drug Store. Robert Rowden, Grocery Store. James Green, Hotel. Bank of Auburn. Roy Marshall, Barber Shop. Stephen Kannell, Hotel.

John M. Nuffer, General Store.

Ira Clark, Meat Market.

MUIR, MICH.

J. O. Probesco, Hardware and General Merchandise.
Butter Terrill, Druggist.
L. F. Lobdell, Barber.
F. D. Reoso, Contractor.
Presbyterian Church. George Beedle, Farmer.

BURR OAK, MICH.

Van Hausan & Spencer, Grocery and Dry Goods. E. A. F. Schmidt & Company, General Store. R. C. Himebaugh, Clothing, etc. R. C. Himebaugh, Clothing, Bert Bowling, Barber Shop. Diffenbaugh & Himebaugh, General Hardware. Masonic Hall.

MONTROSE, MICH.

J. C. Faner, Drug Store. I. O. O. F. Hall. Masonic Hall. Samuel Quehl, Harness Shop.

Telegraph Cipher Code

To Supersede All Former Issues

ABCDEFGHIJ 1 2 3 4 5 6 7 8 9 0

Prefix letters before the code word to determine number of articles wanted. Thus, "Ajowl," means 10 No. 24 Giant Arcs complete.

"Saw"-Ship by express.

"Maine"-Ship by express C. O. D.

"Lard"-Ship by freight.

"Rib"-Ship by freight C. O. D.

"May"-Wire trace goods shipped.

"Fog"-Telegraph when you can ship.

"Dew"-Write when you can ship.

"Gab"-Have you shipped goods ordered.

"Grub"-How many can you ship.

"Ohio"-Can you ship at once,

"Iowa"-Can you ship this week.

"Texas"-Quote prices and terms by mail.

"Wheat"-Send printed matter with shipment.

"Corn"-Send by mail at once,

"South"-Send by registered mail at once.

"North"-Answer by wire immediately.

"East"-Answer by mail immediately,

"West"-Have you received.

"Silk"-We have received.

"Linen"-Mail catalogue immediately,

"Moon"-Answer our telegram regarding.

"Beef"-We can ship at once.

"Blind"-We can ship this week,

"Wood"-We can ship within ten days.

"Pine"-Have written you today.

"Black"-Have expressed today,

"White"-Have shipped by freight today.

"Red"-My address until further notice will be.

"Green"-I leave here today for.

Price List of Globes, Shades and Mantles

Prices here named are for each Globe or Shade and for one dozen Mantles; also code words used for ordering by telegraph. All goods ordered by telegraph are shipped C. O. D. unless parties have satisfactory rating in Commercial Agencies. This same rule applies also to mail orders.

No. 180—Opalescent shade, code word, "Bug," page 16	\$1.00
No. 448—Opalescent globe, code word, "Eye," page 18	1.00
No. 33—Holophane shade, code word, "Ear," page	1.00
No. 70—Acid-etched globe, code word, "Hat," page 22	.40
No. 100—Bead-fringed shade, code word, "Pin," page 24	3.00
No. 34—Hexagon globe, code word, "Fox,"	1.00
page 26 No. 447—Opalescent globe, code word, "Tie,"	1.25
pages 28 and 36	.20
No. 190—Enameled ceiling plate, code "Bit,"	1.00
page 24 No. 170—Steel shade, code word, "Ink," page 34	1.00
No. 71—Frosted top globe, code word, "Pet," page 32	.20
One dozen Giant rag mantles, code word, "Pen,"	1.00

Our reputation has been established by the grade of material and supplies used to make up Little Giant Lighting System, that we have been devoting our entire time in manufacturing and improving for twelve long years.

Do not expect to get full candle power and good results by using a cheaper mantle than "Little Giant," brand with our address on same while you may save from 10 to 20 cents on each dozen you will lose five times this amount in candle power.

Never use mantles after holes get in them, as you waste gas, break globes and do not get satisfactory results. In replacing mantles always remove and clean burner thoroughly.

Guarantee Bond

E AGREE to replace or repair any part of this lighting system, (except glassware and mantels, which are not guaranteed) free to you, to take place of part that proves defective within one year from date installed, provided same is delivered to our factory with transportation charges prepaid, provided our printed instructions are followed.

We further agree, provided the Generator mentioned in this bond proves unsatisfactory at any time within four years thereafter, to furnish a new Generator of same capacity for \$7.00 if Model "C;" \$8.00 if Model "F;" \$12.00 if Model "D;" and \$16.00 if Model "E," in exchange for the first one sold you, provided cash accompanies order.

Model No.	
Capacity	Lights
Date installed	
Ву	

ALLEN-SPARKS GAS LIGHT CO.

R. A. ASTLEY, General Manager.

Guarantee like this furnished with each Generator.

AVERY LIBRARY
COLUMBIA UNIVERSITY

4100 AL54 1910

Little Giant

J.F.Lloyd Cneonta, N, Y,

ENGRAVED BY MANUFACTURERS ENGRAVING CO.
PRINTED BY RIPLEY & GRAY
LANSING, MICH.